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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO 5433
09/820,520	03/28/2001	Masato Yonezawa	07977/270001/US4820	
7:	590 07/25/2003			
SCOTT C. HARRIS			EXAMINER	
Fish & Richardson P.C. 4350 La Jolla Village Drive, Suite 500 San Diego, CA 92122			ALEJANDRO MULERO, LUZ L	
			ART UNIT	PAPER NUMBER
			1763	12
			DATE MAILED: 07/25/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

V · · ·		mud				
A. C.	Application No.	Applicant(s)				
	09/820,520	YONEZAWA ET AL.				
Office Action Summary	Examin r	Art Unit				
	Luz L. Alejandro	1763				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspond nce address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	66(a). In no event, however, may a reply within the statutory minimum of thirty (3 ill apply and will expire SIX (6) MONTHS cause the application to become ABANI	v be timely filed 0) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 12 N	1av 2003 .					
	s action is non-final.					
3)☐ Since this application is in condition for allowa						
closed in accordance with the practice under <i>I</i> Disposition of Claims	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
4) Claim(s) 1-4 and 6-19 is/are pending in the ap	plication.					
4a) Of the above claim(s) <u>15-19</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6) Claim(s) <u>1-4 and 6-14</u> is/are rejected.	☑ Claim(s) <u>1-4 and 6-14</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner		E contrar				
10) The drawing(s) filed on is/are: a) accep						
Applicant may not request that any objection to the 11) The proposed drawing correction filed on	• • • • • • • • • • • • • • • • • • • •	• •				
If approved, corrected drawings are required in rep		pproved by the Examiner.				
12) The oath or declaration is objected to by the Exa	•					
Priority under 35 U.S.C. §§ 119 and 120	arimier.					
13) Acknowledgment is made of a claim for foreign	priority under 35 H.S.C. & 1	19(a) (d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 33 0.3.0. § 1	19(a)-(u) 01 (1).				
1.☐ Certified copies of the priority documents	s have been received					
Certified copies of the priority documents Certified copies of the priority documents		lication No				
3. Copies of the certified copies of the prior						
application from the International Bur * See the attached detailed Office action for a list of	eau (PCT Rule 17.2(a)).					
14)☐ Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 1	119(e) (to a provisional application).				
 a) The translation of the foreign language production 15) Acknowledgment is made of a claim for domestic 						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)				
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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5-12-03 has been entered.

Drawings

Figures 1A-1C, 2A-2B, and 3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities: on page 10, lines 11, 13, and 14, a number is given for a diameter but no units are given.

Appropriate correction is required.

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 9-line 2, "said surface" renders the claim indefinite because it is unclear what surface is being referenced. Note that in claim 1-lines 9-10, a surface of a substrate is claimed while in line 13 a surface of the electrode is claimed. For purposes of examination, it is assumed that the surface of the substrate is being claimed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-4 and 6-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted prior art in view of Williams, U.S. Patent 5,614,026 and further in view of Izu et al., U.S. Patent 4,410,558.

Admitted prior art shows the invention substantially as claimed including a film formation apparatus comprising: a vacuum chamber; an introducing means 206 for introducing a gas into the chamber; an exhaust means for exhausting the gas from the vacuum chamber to the outside; a first mesh-like showerhead plate electrode 203,204 for supplying an electric energy inside the chamber; a second grounded electrode 202 opposing the first electrode for supplying the electric energy inside the vacuum chamber; a supporting means for supporting a substrate 201 opposing the first electrode and a transporting means for transporting a flexible substrate including at least one selected from a winding and an unwinding roll (see applicant's description of the roll to roll method at paragraph bridging pages 1 and 2), wherein an introducing port is located adjacent to an electrode side surface of the substrate, wherein a plurality of openings are located on a surface of the first electrode opposing the substrate, and wherein said first electrode is located below said second electrode (see Fig. 2A and page 3, line 16 to page 4, line 3 of specification). Note that for purposes of claim interpretation, the first and second electrodes described above represent the second and first electrodes of claim 10.

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Admitted prior art fails to expressly disclose wherein the gas is exhausted from the plurality of openings which are circular, and wherein said gas inlet port is located in a position between the substrate and the second electrode. Williams discloses a showerhead whereby concentric openings are contained within the showerhead for exhausting the gas (see abstract and Fig. 3(a)). In view of this disclosure, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of the Admitted prior art so as to exhaust gas from the openings in the showerhead as suggested by Williams because this results in greater uniformity of the gas at the substrate surface (see col. 2-lines 13-16). With respect to the shape of the openings for exhausting the gas, the particular shape of the openings is a matter of choice which a person of ordinary skill in the art would have found obvious absent persuasive evidence that the particular configuration of the claimed openings are significant. Regarding the location of the gas inlet port, Izu et al. discloses a gas inlet port 52 located in a position between the substrate 50 and an electrode 58 (see fig. 3 and col. 4-line 23 to col. 7-line 19). In view of this disclosure, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Admitted prior art modified by Williams so as to include a gas inlet between the substrate and the second lower electrode as suggested by Izu et al. because this allows for uniform distribution of the gas across the entire substrate.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luz L. Alejandro whose telephone number is 703-305-4545. The examiner can normally be reached on Monday to Thursday from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory L. Mills can be reached on 703-308-1633. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Luz L. Alejandro Primary Examiner Art Unit 1763

July 23, 2003